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	Application No.	Applicant(s)	
	10/615,107	ICE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Ingrid Wright	2835	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is and MPEP 1308.	in this application. If not include nunication will be mailed in due of	d course. THIS
1. $oxed{\boxtimes}$ This communication is responsive to $7/8/2003$. $\mathcal{L}\mathcal{HPP}^{\mathcal{L}}$	14/10/		•
2. X The allowed claim(s) is/are <u>1-32</u> .			
3. $igotimes$ The drawings filed on <u>08 July 2003</u> are accepted by the Ex	xaminer.		
4. Acknowledgment is made of a claim for foreign priority unally All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	e been received. e been received in Applicat cuments have been receiv of this communication to fi	ion No ed in this national stage applicati	
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv			OTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the second sheet.	son's Patent Drawing Revie - 's Amendment / Comment 1.84(c)) should be written on	or in the Office action of the drawings in the front (not the	back) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 			ote the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/I Paper No./Mail Date 11/24/2003 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ⊠ Interview Paper No 08), 7. ⊠ Examiner	Informal Patent Application (PTC Summary (PTO-413), b./Mail Date <u>4/28/2005</u> . 's Amendment/Comment 's Statement of Reasons for Allow	
	A. Mus	ANATOLY VORTMAN PRIMARY EXAMINE	3

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Kevin W. Stinger, Reg. No. 48,959 on 4/28/2005.

The application has been amended as follows:

In claim 31, line 1 of the claim, following "claim 30," [wherein the body of the heat spreading device defines a raised structure about the hole defined in the body, the raised structure configured to ensure adequate spacing exists between the heat spreading device and a printed circuit board positioned in the shell of the optical transceiver module.] has been replaced with -further comprising a hole defined in the body of the heat spreading device for receiving a screw that is configured to attach the body to the shell of the optical transceiver housing.-

In claim 32, line 1 of the claim, following "claim 31," [further comprising a hole defined in the body of the heat spreading device for receiving a screw that is configured to attach the body to the shell of the optical transceiver housing.] has been replaced with -wherein the body of the heat spreading device defines a raised structure about the hole defined in the body, the raised structure configured to ensure adequate spacing exists between the heat spreading device and a printed circuit board positioned in the shell of the optical transceiver module.-

2. The following is an examiner's statement of reasons for allowance: the allowability resides in the overall structure of the device as recited in independent claims 1, 11, 21, and 24, and at least in part, because claim 1 recites: "a thermally conductive slug received within the cavity of the body, the slug being positioned within the cavity to absorb heat from the heat tongue and transfer it to the body of the heat spreading device," claim 11 recites: "a thermally conductive slug shaped to be received within the cavity of the heat spreader," claim 21 recites: "placing a thermal slug in the cavity of the heat spreader and positioning it such that the thermal slug physically contacts both the heat tongue and the heat spreader," and claim 24 recites: "a thermally conductive slug sized and configured to be received in the cavity, wherein the slug is thermal communication with both the exterior portion of the heat tongue and the body." The aforementioned limitations in combination with all remaining limitations of claims 1, 11, 21 and 24, are believed to render the claims and all claims dependent therefrom patentable over the art of record.

US2005/0045374 A1 to Kumar et al. is considered to be the closest reference to the present invention, disclosed (Fig. 1) flexible circuit boards with tooling cutouts for optoelectronic modules comprising a flexible circuit (108) and a Transmitter Optical Subassembly (TOSA) assembly (102) but did not disclose a cooling arrangement having a thermally conductive slug positioned in the cavity, of the body of the heat

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spreading device, which is required by each of the independent claims 1, 11, 21 and 24 of the instant application.

The Examiner has cited the following pertinent to the present invention references: US/6703561 B1, US 6869230 B2, US 6867377 B2, US 6822875 B2, US 6206582 B1, US 5216730, US 6705769 B2, US 6502999 B1, US 2004/0074661 A1, US 2003/0044121 A1, and JP/2004063861 A disclosed optical transceiver configurations and or components.

US/6756669 B2 disclosed a heat spreader (110).

US/6707140 B1 disclosed a slug (122).

None of the cited references either alone or in combination is believed to render the present invention unpatentable as claimed.

- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ingrid Wright whose telephone number is (571) 272-8392. The examiner can normally be reached on M-F, $g_{a.m.} S_{p.m}$.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached on (571) 272-2800, ext 35. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

April 29,2005 IDW

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PRIMARY EXAMINER

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